

ABSTRACT OF THE DISCLOSURE

The present invention relates to a repair and reinforcement method for preexisting structures such as buildings or the like, and in particular, relates to a repair and reinforcement method for concrete structures, and to an anisotropic textile employed in this method. The present invention provides a method which permits execution even in low temperature conditions, and which moreover exhibits superior repair and reinforcement effects in a short period of time; during the impregnation of a resin into a sheet material comprising reinforcement fibers and the curing of this resin to form a fiber-reinforced resin layer which is used in the repair and reinforcement of preexisting structures, a reactive mixture having a gelling period of 15 minutes or more at a temperature of 25°C and which polymerizes even at 5°C and is curable within 6 hours, and which has as chief components thereof a monomer containing vinyl groups and a reactive oligomer having vinyl groups and/or a thermoplastic polymer, is employed as the resin. Furthermore, the present invention provides an anisotropic textile for use in the repair and reinforcement of preexisting structures.